

What is claimed is:

1. A cervical tenaculum comprising:

a base including a device receiving opening extending therethrough;

a plurality of arms, each arm extending from a proximal end connected to the base to a distal end adapted to apply radial pressure to a cervix; and

an arm closing element slidable along the arms between an open position in which the distal ends of the arms are released to a radially expanded configuration and a closed position in which the distal ends of the arms are radially constricted by the arm closing element with respect to the open position.

2. The cervical tenaculum according to claim 1, further comprising an arm lock element coupled to the arm closing element to immobilize the arm closing element in at least one of the open and closed positions.

3. The cervical tenaculum according to claim 1, further comprising a device lock operatively connected to the plurality of arms, the device lock selectively immobilizing a device extending through the device receiving opening relative to the base.

4. The cervical tenaculum according to claim 1, further comprising a first resilient element biasing the arm closing element toward the open position.

5. The cervical tenaculum according to claim 2, wherein the arm lock element comprises a second resilient element biasing the arm lock element toward the locking position.

6. The cervical tenaculum according to claim 3, wherein the device lock comprises first and second rotatable eccentric rings for frictionally engaging a device extending therethrough when the first ring is rotated relative to the second ring.
7. The cervical tenaculum according to claim 1, wherein the distal end of each arm further comprises an end effector for engaging and retaining cervical tissue.
8. The cervical tenaculum according to claim 7, wherein each of the end effectors comprises at least one tissue engaging spike.
9. The cervical tenaculum according to claim 1, wherein a closing force applied to the plurality of arms is adjustable by varying a position of the arm closing element along the arms.
10. The cervical tenaculum according to claim 1, wherein the arm closing element is a ring mounted around the plurality of arms so that, as the ring is moved further distally along the arms, the distal ends of the arms are drawn radially inward toward an inner circumference of the ring.
11. The cervical tenaculum according to claim 3, further comprising guide rods connecting the device lock to the arm closing element, the guide rods forming a frame defining a longitudinal device receiving passage therethrough.
12. The cervical tenaculum according to claim 2, further comprising a rapid release mechanism which, when actuated, rapidly returns the arm closing element from the closed position to the open position.
13. The cervical tenaculum according to claim 12, further comprising a manually operable lever coupled to the arm lock element for actuating the arm lock element to immobilize the arm closing element and a first resilient member biasing the arm closing

element toward the open position.

14. The cervical tenaculum according to claim 1, wherein the base is formed of two separate halves joinable to form a unitary component.

15. A cervical sealing device, comprising:

an elongated frame with a distal end for placement adjacent to a cervix, the elongated frame defining a device receiving passage extending therethrough;

a constriction element coupled to the distal end of the elongated frame, the constriction element being operable between a constricted configuration for applying a radially inwardly directed force to the cervix and an open configuration in which the constriction element is loosened around the cervix; and

a manual control actuating the constriction element between the constricted and open configurations.

16. The cervical sealing device according to claim 15, further comprising a device lock mounted to the frame for movement between a first position extending into the device receiving passage for immobilizing a device received therein and an open position in which the device receiving passage is unobstructed.

17. The cervical sealing device according to claim 15, wherein the constriction element comprises a loop extending from the distal end, the loop being coupled to the manual control so that actuation of the manual control varies a diameter of the loop.

18. The cervical sealing device according to claim 17, further comprising control arms adapted to maintain the loop in a plane substantially perpendicular to an axis of the elongated frame.

19. The cervical sealing device according to claim 18, wherein the control arms bias the loop toward an open position.
20. The cervical sealing device according to claim 17, further comprising a pull wire connected to the loop, wherein operating the pull wire being tightens and loosens the loop.
21. The cervical sealing device according to claim 15, wherein the constriction element comprises a substantially planar clamp.
22. The cervical sealing device according to claim 21, wherein the substantially planar clamp includes attachment points for releasably connecting the clamp to control arms of the elongated frame.
23. The cervical sealing device according to claim 15, wherein the constriction element comprises movable arms having an open configuration and a closed configuration, the movable arms constricting the cervix in the closed configuration.
24. The cervical sealing device according to claim 23, further comprising an actuating block slidable along the movable arms, the actuating block controlling movement of the movable arms between the open and closed configurations.
25. The cervical sealing device according to claim 23, wherein the movable arms comprise resilient elements biasing the movable arms toward the open configuration.
26. The cervical sealing device according to claim 23, wherein the movable arms engage cervical tissue with a wire loop.
27. The cervical sealing device according to claim 23, wherein the movable arms

engage cervical tissue with end effectors extending therefrom.

28. The cervical sealing device according to claim 18, further comprising protrusions extending from the control arms for engaging cervical tissue.

29. The cervical sealing device according to claim 23, further comprising protrusions extending from the movable arms for engaging cervical tissue.

30. A method of performing an intrauterine medical procedure, comprising:

placing a constricting element in proximity to a cervix;

introducing a device into a uterus through the cervix, the device extending through a passage of the constriction element;

placing a cervical constriction element of the constriction element in an operative position on the cervix; and

actuating the cervical constriction element to seal the cervix around the device.

31. The method according to claim 30, further comprising closing a plurality of arms of the cervical constriction element to apply a radially inwardly directed pressure around a periphery of the cervix.

32. The method according to claim 31, further comprising displacing an arm closing ring to simultaneously move each of the plurality of arms from an open position to a closed position.

33. The method according to claim 32, wherein the cervical constriction element

includes a resilient element biasing the arms toward an open position.

34. The method according to claim 32, further comprising actuating an arm lock to prevent undesired movement of the arms.

35. The method according to claim 30, further comprising locking the device to the constriction element with a device lock.

36. The method according to claim 35, further comprising rotating an eccentric element of the constriction element lock to immobilize the device.

37. The method according to claim 34, further comprising releasing the arm lock to allow release and removal of the constriction element from the cervix.

38. The method according to claim 30, further comprising deploying a constriction loop of the constriction element around the cervix and around the device and tightening the constriction loop to apply a radial inward pressure to the cervix.

39. The method according to claim 38, further comprising controlling a shape and orientation of the constriction loop in an open position with a pair of control arms of the constriction element.

40. The method according to claim 39, wherein the constriction element includes a biasing member coupled to the pair of control arms biasing the constriction loop toward the open position.

41. The method according to claim 30, further comprising placing a constriction clamp in the operative position on the cervix.

42. The method according to claim 41, further comprising placing the constriction

clamp over the cervix in an open position, and thereafter closing the constriction clamp.

43. The method according to claim 30, further comprising engaging cervical tissue with protrusions of the constriction element.